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Simulating radio observations with KARABO

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KARABO is a versatile data simulator designed to handle the complex scientific requirements of the Square Kilometre Array (SKA) data. The simulator uses containerized packages and science-specific Python modules to generate mock data that allows for the study of scientific accuracy and the characterization of the instrument. KARABO's flexibility and parallelization make it a powerful tool for creating mock SKA data products, heliophysics requirements and simulating the EoR for SKA data challenge-3. This talk will discuss KARABO's implementation of simulating astronomical use cases from SKA and its precursor.

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